



LEARNING TRAILS AY 2024-25

GRADE: 10

TERM 1_WEEK 13 (18th November to 22nd November 2024)

ENGLISH 0510	MATHEMATICS
<p>Topics: Writing</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">*communicate information, ideas and opinions.*use appropriate register and style for the given purpose and audience <p>Resources needed:</p> <p>Past papers booklet notebooks</p> <p>Homework/Assignments:</p>	<p>Topics:</p> <p>Vector, Transformation</p> <p>Learning Objectives:</p> <p>Understand and use position vectors. Translate a 2D shape. Reflect a 2D shape in a mirror line. Reflect a 2D shape in a diagonal mirror line. Rotate a 2D shape about a point. Enlarge a 2D shape by a scale factor. Find the centre of enlargement and scale factor of given shapes and images.</p> <p>Resources needed:</p> <p>Textbook, Graph paper, tracing paper, geometry box</p> <p>Homework/Assignments:</p> <p>Daily practice questions, past papers</p>
ADVANCED ARABIC	GENERAL ARABIC
<p>Topics:</p> <p>اختبار في مهارة الاستماع</p> <p>Learning Objectives:</p> <p>أن يحلل المتعلم المادة المسموعة محددًا الفكر، والنقاط الرئيسية</p> <p>Resources needed:</p> <p>الكتاب المدرسي - العرض التقديمي - المادة المسموعة</p> <p>Homework/Assignments:</p> <p>مراجعة القواعد النحوية</p>	<p>Topics</p> <p>اختبار الكتابة ومراجعة</p> <p>Learning Objectives:</p> <p>أن يكتب الطالب عن موضوع ما بطريقة صحيحة أن يجيب الطالب عن الأسئلة</p> <p>Resources needed:</p> <p>أوراق العمل_ أنشطة صفية إلكترونية</p> <p>Homework/Assignments:</p> <p>حل أوراق العمل</p>
PHYSICS	BIOLOGY
<p>Topics:</p> <p>5.2.4 Half-life</p> <p>Learning Objectives:</p> <p>Define the half-life and calculate half life from the given data or graph.</p>	<p>Topics:</p> <p>Reproduction in organisms</p> <p>Learning Objectives:</p> <p>Identify on diagrams and state the functions of the parts of the male and reproductive system.</p>



<p>Explain how the type of radiation emitted and the half-life of an isotope determine which isotope is used for applications</p> <p><u>Resources needed:</u> PPT, Task sheet</p> <p><u>Homework/Assignments:</u> Solving past paper questions</p>	<p>Explain the adaptive features of sperm, limited to: flagellum, mitochondria and enzymes in the acrosome</p> <p>Explain the adaptive features of egg cells, limited to: energy stores and the jelly coat that changes at fertilisation</p> <p>Compare male and female gametes in terms of: size, structure, motility and numbers</p> <p>State that in early development, the zygote forms an embryo which is a ball of cells that implants into the lining of the uterus</p> <p>Identify on diagrams and state the functions of the following in the development of the fetus: umbilical cord, placenta, amniotic sac and amniotic fluid</p> <p>Describe the function of the placenta and umbilical cord in relation to the exchange of dissolved nutrients, gases and excretory products between the blood of the mother and the blood of the fetus</p> <p><u>Resources needed:</u> Text book, Presentation, task sheets</p> <p><u>Homework/Assignment</u> Past papers, worksheets, diagrams and workbook questions.</p>
CHEMISTRY	ICT
<p><u>Topics:</u> Stoichiometry</p> <p><u>Learning Objectives:</u> Describe relative atomic mass, A_r . State that the mole, mol, is the unit of amount of substance and that one mole contains 6.02×10^{23} particles. Define relative molecular mass, M_r. Calculate reacting masses in simple proportions. Use the relationship amount of substance (mol) = mass (g) molar mass (g / mol) to calculate: (a) amount of substance (b) mass (c) molar mass (d) relative atomic mass or relative molecular /</p>	<p><u>Topics:</u> Chapter 8- Moderated Forum and Unmoderated Forum</p> <p><u>Learning Objectives:</u> Distinguish between moderated and unmoderated forum Practical: Premock practical exam - (Paper 2)</p> <p><u>Resources needed:</u> MS office, PPTs, Past Paper Questions</p> <p><u>Homework/Assignments:</u> Practice paper 2 - June 2023 (complete paper – Word documentation, Database, Presentation)</p>



<p>formula mass (e) number of particles, using the value of the Avogadro constant</p> <p>Resources needed: Worksheets, videos, workbook, periodic table</p> <p>Homework/Assignments: Daily Questions, Weekly Assignments and Past paper questions</p>	
ISLAMIC ARABIC	ISLAMIC EDUCATION
<p>Topics: الوقف في الإسلام</p> <p>Learning Objectives: - فهم مفهوم الأوقاف في الإسلام، بما في ذلك أهميتها في تعزيز العمل الخيري ورفاهية المجتمع.</p> <p>تحليل كيفية مساهمة الأوقاف في التنمية المستدامة والنمو - المستمر للموارد لصالح الأجيال القادمة</p> <p>Resources needed: الكتاب المدرسي البوربوينت أنشطة صفية</p> <p>Homework/Assignments: حل أنشطة الطالب بالكتاب المدرسي مراجعة البوربوينت للدرس</p>	<p>Topics: Endowments: Giving and Growth</p> <p>Learning Objectives: Understand the concept of endowments in Islam, including its significance in promoting charity and community welfare. Analyze how endowments (Waqf) contribute to sustainable development and the ongoing growth of resources for the benefit of future generations.</p> <p>Resources needed: Islamic Studies textbook - Relevant chapters on endowments (Waqf) and charity. Case studies or video examples - Short videos or articles showcasing real-world examples of Islamic endowments and their impact on communities.</p> <p>Homework/Assignments: Write a brief reflection on a modern example of an endowment you would establish and explain how it would benefit your community.</p>
ACCOUNTING	BUSINESS STUDIES
<p>Topics: Other receivables and Other Payables</p> <p>Learning Objectives: To recognise the importance of matching costs and revenues</p>	<p>Topics: Location decision</p> <p>Learning Objectives: To analyze the quantitative and qualitative factors that affect location decision of a business.</p>



To prepare ledger accounts and journal entries to record accrued and prepaid expenses
To prepare ledger accounts and journal entries to record accrued and prepaid incomes.

Resources needed:

Text book
Task Sheets
Formats

Homework/Assignment:

Topical questions

To analyze the reasons why business may decide to relocate to another country.
To analyze how legal control may affect location decisions.

Resources needed:

Text Book
Topical case studies [uploaded in teams]

Homework/Assignments:

Practice topical past papers

ECONOMICS

Topics:

Population(cont) Differences in economic development

Learning Objectives:

To evaluate the ways of reducing the birth rate
To discuss the consequences of ageing population
To analyze the ways of coping with an ageing population
To discuss the effects of net emigration
To describe the nature of economic development

Resources needed:

Textbook
Topical questions

Homework/Assignments:

Practice of past paper questions
Weekly test on every Wednesday